# **EXPERIMENT - 7**

## Object Oriented Programming Lab

### Aim

To create a function power to raise a number m to a power n. The function takes double value for m and integer value for n. Use default value for n to make the function. Calculate the squares when this argument is omitted.

## **EXPERIMENT - 7**

#### Aim:

To create a function power to raise a number m to a power n. The function takes double value for m and integer value for n. Use default value for n to make the function. Calculate the squares when this argument is omitted.

#### **Source Code:**

```
#include <iostream>
using namespace std;
float power(double base, int powr = 0){
    if (powr == 0) {
        return base * base;
    }
    float res = 1;
    for (int i = 0; i < powr; ++i) {
        res *= base;
    }
    return res;
}
int main(){
    int powr;
    double base;
    cout << "Enter the number whose power you want to calculate:- " << endl;</pre>
    cin >> base;
    cout << "Enter the power of the base:- " << endl;</pre>
    cin >> powr;
```

```
cout << "The result of " << base << " to the power " << powr << " is " << pow
er(base, powr) << endl;
    return 0;
}</pre>
```

#### **Output:**